



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/522,111

01/25/2005

Franck Abelard

PF020097

2145

24498

7590

06/23/2009

Thomson Licensing LLC

P.O. Box 5312

Two Independence Way

PRINCETON, NJ 08543-5312

EXAMINER

JONES, HEATHER RAE

ART UNIT

PAPER NUMBER

2621

MAIL DATE

DELIVERY MODE

06/23/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/522,111	Applicant(s) ABELARD ET AL.	
	Examiner HEATHER R. JONES	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 March 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 and 10-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 10-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 January 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 26, 2009 has been entered.

Response to Arguments

2. Applicant's arguments filed March 26, 2009 have been fully considered but they are not persuasive.

The Applicant argues that Parry et al. fails to disclose "deallocating at the beginning of the file, a predetermined quantity of resources depending on the size of the file and on a delay between said read and write pointer, to keep the constant size of the file and on a delay between said read and write pointer, to keep constant the size of said file. The Examiner respectfully disagrees. Parry et al. discloses a fixed quantity of storage used for the buffer but within that fixed quantity of storage parts of it are allocated for the file and other parts are deallocated for the file in order to never fully "fill-up" the buffer as disclosed in col. 7, line 60 - col. 8, line 16. Furthermore in col. 7, line 60 – col. 8, line 16 it states that the buffer always has a fixed maximum time quantum of data available for

reading, thereby keeping constant the size of the file. By not completely filling up the buffer parts of the buffer would need to be allocated and deallocated for storing the data. Parry et al. fails to explicitly disclose that the quantity of storage deallocated in the file is based on the size of the file and on a delay between the read and write pointer. Official Notice is taken that deallocating a portion of the buffer based on the size of the file and on a delay between the read and write pointer in order to optimize the performance of the buffer by maximizing the amount of storage being stored in the buffer without completely filling up the buffer. Therefore, Parry et al. meets the claimed limitations and the rejection is maintained.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-3 and 10-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parry et al. (U.S. Patent 6,535,920).

Regarding claim 1, Parry et al. discloses a method of delayed reading of digital video data stored in a file on a recording medium, comprising: allocating, on a recording medium, a predetermined quantity of resources to said file intended for delayed reading of data (col. 7, line 60 - col. 8, line 16 - by not completely

filling up the buffer parts of the buffer would need to be allocated and deallocated for storing the file); writing said data in said file, a write pointer indicating the write position (Fig. 6 – reference character “150”); reading said data in said file, a read pointer indicating the read position (Fig. 6 – reference character “152”); and deallocating at the beginning of the file, a predetermined quantity of storage, to keep constant the size of the buffer (col. 7, line 60 - col. 8, line 16 - by not completely filling up the buffer parts of the buffer would need to be allocated and deallocated for storing the file; col. 8, lines 1-3 – the buffer always has a fixed maximum time quantum of data available for reading, thereby keeping constant the size of the file). Parry et al. fails to explicitly disclose that the quantity of storage deallocated in the file is based on the size of the file and on a delay between the read and write pointer. Official Notice is taken that deallocating a portion of the buffer based on the size of the file and on a delay between the read and write pointer in order to optimize the performance of the buffer. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have deallocated parts of the buffer based on the size of the file and on a delay between the read and write pointer in order to optimize the performance of the buffer by maximizing the amount of storage being stored in the buffer without completely filling up the buffer.

Regarding claim **2**, Parry et al. discloses all the limitations as previously discussed with respect to claim 1 including that the data being stored continuously on the recording medium, a reading window is defined for these

Art Unit: 2621

data such that stored data can be read only during a specified lag following their storage (Figs. 5, 6, and 10; col. 16, lines 4-18 – the circular buffer provides a fixed quantity of storage of only 5 minutes, 30 minutes, or an hour, col. 10, lines 36-48 - the read and write pointers rotate around the circular buffer therefore providing a sliding window).

Regarding claim **3**, Parry et al. discloses all the limitations as previously discussed with respect to claim 1 Including that the resources of the recording medium being managed by a file controller allotting resources by means of cells, characterized in that a fixed quantity of cells delimited by a start of file cell and by an end of file cell is associated with the file for storing these data (Figs. 8, 10, and 12 - head and tail cells mark the fixed storage quantity).

Regarding claim **10**, Parry et al. discloses all the limitations as previously discussed with respect to claim 2 including that the resources of the recording medium being managed by a file controller allotting resources by means of cells, wherein a fixed quantity of cells delimited by a start of file cell and by an end of file cell is associated with the file for storing these data (Figs. 8, 10, and 12 - head and tail cells mark the fixed storage quantity).

Regarding claim **11**, Parry et al. discloses all the limitations as previously discussed with respect to claim 3 including that when the end of file cell is used to store data, the start of file cell is deallocated, a new end of file cell being allocated to this file (col. 10, lines 36-48 - the read and write pointers rotate

around the circular buffer therefore providing a sliding window while reallocating cells on the way depending where they are on the rotation).

Regarding claim **12**, Parry et al. discloses all the limitations as previously discussed with respect to claim 4 including that when the end of file cell is used to store data, the start of file cell is deallocated, a new end of file cell being allocated to this file (col. 10, lines 36-48 - the read and write pointers rotate around the circular buffer therefore providing a sliding window while reallocating cells on the way depending where they are on the rotation).

Regarding claim **13**, Parry et al. discloses all the limitations as previously discussed with respect to claim 3 including that when the end of file cell is used to store data, the set of the cells that are distant from the end of file cell by a specified quantity of data is deallocated from the file and reallocated as cells consecutively following the end of file cell (col. 10, lines 36-48 - the read and write pointers rotate around the circular buffer therefore providing a sliding window while reallocating cells on the way depending where they are on the rotation).

Regarding claim **14**, Parry et al. discloses all the limitations as previously discussed with respect to claim 10 including that when the end of file cell is used to store data, the set of the cells that are distant from the end of file cell by a specified quantity of data is deallocated from the file and reallocated as cells consecutively following the end of file cell (col. 10, lines 36-48 - the read and write pointers rotate around the circular buffer therefore providing a sliding

window while reallocating cells on the way depending where they are on the rotation).

Regarding claim **15**, Parry et al. discloses all the limitations as previously discussed with respect to claim 3 including that separate means of writing or of reading data are used (Figs. 5 and 6; col. 7, lines 5-7).

Regarding claim **16**, Parry et al. discloses all the limitations as previously discussed with respect to claim 10 including that separate means of writing or of reading data are used (Figs. 5 and 6; col. 7, lines 5-7).

Regarding claim **17**, Parry et al. discloses all the limitations as previously discussed with respect to claim 11 including that separate means of writing or of reading data are used (Figs. 5 and 6; col. 7, lines 5-7).

Regarding claim **18**, Parry et al. discloses all the limitations as previously discussed with respect to claim 12 including that separate means of writing or of reading data are used (Figs. 5 and 6; col. 7, lines 5-7).

Regarding claim **19**, Parry et al. discloses all the limitations as previously discussed with respect to claim 13 including that separate means of writing or of reading data are used (Figs. 5 and 6; col. 7, lines 5-7).

Regarding claim **20**, Parry et al. discloses all the limitations as previously discussed with respect to claim 14 including that separate means of writing or of reading data are used (Figs. 5 and 6; col. 7, lines 5-7).

Regarding claim **21**, Parry et al. discloses all the limitations as previously discussed with respect to claim 15 including that the means of reading or of

writing comprising, respectively, write or read pointers wherein the write pointer precedes the read pointer for every cell of a file (col. 9, lines 23-34).

Regarding claim **22**, Parry et al. discloses all the limitations as previously discussed with respect to claim 16 including that the means of reading or of writing comprising, respectively, write or read pointers wherein the write pointer precedes the read pointer for every cell of a file (col. 9, lines 23-34).

Regarding claim **23**, Parry et al. discloses all the limitations as previously discussed with respect to claim 17 including that the means of reading or of writing comprising, respectively, write or read pointers wherein the write pointer precedes the read pointer for every cell of a file (col. 9, lines 23-34).

Regarding claim **24**, Parry et al. discloses all the limitations as previously discussed with respect to claim 20 including that the means of reading or of writing comprising, respectively, write or read pointers wherein the write pointer precedes the read pointer for every cell of a file (col. 9, lines 23-34).

Regarding claim **25**, Parry et al. discloses a device for delayed reading of digital video data stored on a recording medium, comprising means for allocating a fixed quantity of the storage resources of the recording medium to the file storing these data, wherein said file is a sliding window on the recording medium, the device preferably being adapted to implement a method according to claim 1 (Figs. 5, 6, and 10; col. 16, lines 4-18 – the circular buffer provides a fixed quantity of storage, col. 10, lines 36-48 - the read and write pointers rotate around the circular buffer therefore providing a sliding window).

Regarding claim **26**, Parry et al. discloses a computer readable medium encoded with a computer program, the program for performing the method of delayed reading of digital video data according to claim 1, when the said program is executed on a computer (Figs. 5, 6, and 10; col. 16, lines 4-18 – the circular buffer provides a fixed quantity of storage, col. 10, lines 36-48 - the read and write pointers rotate around the circular buffer therefore providing a sliding window, col. 3, lines 13-38 - the program).

Regarding claim **27**, Parry et al. discloses all the limitations as previously discussed with respect to claim 1 including that the deallocating at the beginning of file, a predetermined quantity of resources depending on the size of the file and on a delay between said read and write pointer is performed when said write pointer reaches the end of file (col. 7, line 60 - col. 8, line 16 - by not completely filling up the buffer parts of the buffer would need to be allocated and deallocated for storing the file – since the buffer is a circular buffer and once the write pointer reaches the end of its file more space needs to be allocated and deallocated to continue recording and to maintain the fact that the buffer never fills up).

Regarding claim **28**, Parry et al. discloses all the limitations as previously discussed with respect to claim 1 including that the deallocating at the beginning of file, a predetermined quantity of resources depending on the size of the file and on a delay between said read and write pointer is performed before each write access in said file (col. 7, line 60 - col. 8, line 16 - by not completely filling up the buffer parts of the buffer would need to be allocated and deallocated for

storing the file – since the buffer is a circular buffer and once the write pointer reaches the end of its file more space needs to be allocated and deallocated to continue recording and to maintain the fact that the buffer never fills up).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HEATHER R. JONES whose telephone number is (571)272-7368. The examiner can normally be reached on Mon. - Thurs.: 7:00 am - 4:30 pm, and every other Fri.: 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Heather R Jones

Application/Control Number: 10/522,111
Art Unit: 2621

Page 11

Examiner
Art Unit 2621

HRJ
June 18, 2009

/Thai Tran/
Supervisory Patent Examiner, Art Unit 2621